

Job Name:

System Reference:

Date:

Indoor Unit:
PCA-A42KA7

Outdoor Unit:
☐ PUY-A42NKA7
☐ PUY-A42NKA7-BS



INDOOR UNIT FEATURES

- Airflow settings for high and low ceiling applications
- Knock-out for outside-air intake
- Optional i-see Sensor™ for air distribution and energy saving
- Auto fan speed mode
- Filter status indicator
- Easy-to-clean, washable filter
- Suspends from ceiling for quick and easy installation
- Ideal for larger retail stores, classrooms, and restaurants

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Suction accumulator pre-charged with refrigerant volume for piping length up to 100 ft (70 ft. for A12/18/24/30)
- Low ambient cooling down to -20°F providing 100% capacity (only for PUY models with wind baffles installed)
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart due to bypass valve make it ideal for equipment cooling applications, such as data centers
- Superior energy and operational efficiency

SPECIFICATIONS: PCA-A42KA7 & PUY-A42NKA7(-BS)

Model Number	Indoor Unit		PCA-A42KA7
	Outdoor Unit		PUY-A42NKA7
			PUY-A42NKA7-BS
Cooling ¹	Maximum Capacity	Btu/h	42,000
	Rated Capacity	Btu/h	42,000
	Minimum Capacity	Btu/h	16,000
	Maximum Power Input	W	4,110
	Rated Power Input	W	4,110
	Moisture Removal	Pints/h	11.70
	Sensible Heat Factor		0.69
	Power Factor	%	95.60
Efficiency	SEER		17.60
	EER ¹		10.20
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range	V AC	198 – 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote controller	V DC	12
	Recommended Fuse/Breaker Size	A	30
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	2.00
	MOCP	A	15.00
	Fan Motor Full Load Amperage	A	0.97
	Fan Motor Output	W	160
	Airflow Rate, Dry	CFM	810-885-955-1025
	Airflow Rate, Wet	CFM	740-810-885-955
	External Static Pressure	in.WG	n/a
	Sound Pressure Level	dB(A)	39-41-43-45
	Drain Pipe Size	In. (mm)	1-1/32 (26)
	Condensate Lift Mechanism, Max. Distance	In. (mm)	n/a
	Heat Exchanger Type		Plate fin coil
	External Finish Color		White Munsell 6.4Y 8.9/0.4
	Unit Dimensions	W: In. (mm)	63 (1600)
		D: In. (mm)	26-3/4 (680)
		H: In. (mm)	9-1/16 (230)
	Package Dimensions	W: In.	53-2/16
		D: In.	29-15/16
		H: In.	13-12/16
	Unit Weight	Lbs. (kg)	86 (39)
	Package Weight	Lbs.	102

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Model Number	Indoor Unit		PCA-A42KA7
	Outdoor Unit		PUY-A42NKA7
			PUY-A42NKA7-BS
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	90 DB, 73 WB / 66 DB, 59 WB
Outdoor Unit	MCA	A	25
	MOCP	A	31
	Fan Motor Full Load Amperage	A	0.5 + 0.5
	Fan Motor Output	W	74 + 74
	Airflow Rate	CFM	3,880
	Refrigerant Control		Electronic Expansion Valve
	Heat Exchanger Type		Cross fin
	Sound Pressure Level, Cooling ¹	dB(A)	52
	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		MNB33FBRMC-L
	Compressor Rated Load Amps	A	8
	Compressor Locked Rotor Amps	A	13
	Compressor Oil Type // Charge	oz.	FV50S // 45
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		n/a
	Unit Dimensions	W: In. (mm)	41-5/16 (1050)
		D: In. (mm)	13+1-3/16 (330 + 30)
		H: In. (mm)	52-11/16 (1338)
	Package Dimensions	W: In.	42-15/16
		D: In.	17-11/16
		H: In.	56-4/16
	Unit Weight	Lbs. (kg)	211 (96)
	Package Weight	Lbs. (kg)	243 (110)
Outdoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / -20* DB
Refrigerant	Type		R410A
	Charge	Lbs, oz	10 lbs, 6 oz
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	5/8 (15.88)
	Liquid Pipe Size O.D. (Flared)	In.(mm)	3/8 (9.52)
	Maximum Piping Length	Ft. (m)	225 (69)
	Maximum Height Difference	Ft. (m)	100 (30)
	Maximum Number of Bends		15

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Notes

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
*Wind baffles required to operate below 23°F DB in cooling mode. PUY with wind baffle: -20°F - 115°F. Refer to wind baffle documentation for further information. **System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.			
SEACOAST PROTECTION • External Outer Panel: Phosphate coating + Acrylic-Enamel coating • Fan Motor Support: Epoxy resin coating (at edge face) • Separator Assembly; Valve Bed: Epoxy resin coating (at edge face) • “Blue Fin” treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.			

ACCESSORIES: PCA-A42KA7

High Efficiency (MERV 8) Filter Element	□ PAC-SE81KF-E
High-efficiency Filter Element	□ PAC-SH90KF-E
Signal Receiver	□ PAR-SA9CA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Wireless Remote Receiver	□ PAR-FA32MA-E
Controller Kit (Sender & Receiver)	□ PAR-SL93B-E
Controller Kit with i-see Sensor	□ PAR-SA92MW-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller	□ PAR-33MAA
Simple MA Controller	□ PAC-YT53CRAU
Touch MA Controller	□ PAR-CT01MAU-SB
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
Wireless Interface	□ PAC-USWHS002-WF-1
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and Modbus Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) ¹	□ PAC-SF40RM-E
i-see Sensor™	□ PAC-SH91MK-E
External Drain Pump	□ PAC-SH84DM-E
Blue Diamond Sensor Extension Cable—15 Ft.	□ C13-103
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - White	□ TAZ-MS303W

¹ Unable to use with wireless remote controller

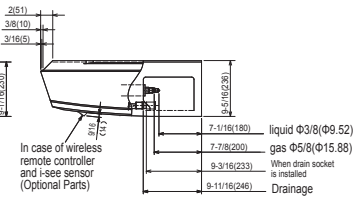
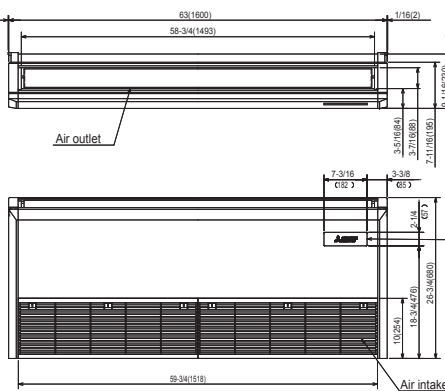
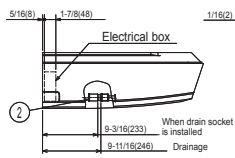
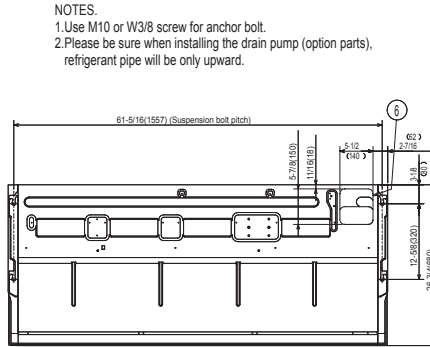
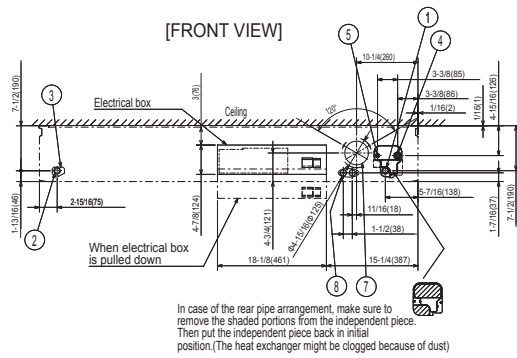
ACCESSORIES: PUY-A42NKA7(-BS)

Air Outlet Guide	□ PAC-SH96SG-E (two pieces are required)
Front Wind Baffle	□ WB-PA3 (two pieces are required)
Drain Socket	□ PAC-SG61DS-E
M-NET Converter	□ PAC-SF83MA-E
M-NET Converter	□ PAC-SJ95MA-E
Control/Service Tool	□ PAC-SK52ST
Condensing Unit Mounting Pad 24" x 42" x 3"	□ ULTRILITE2
Outdoor Unit Stand—12" High	□ QSMS1202M
Outdoor Unit Stand—18" High	□ QSMS1802M
Outdoor Unit Stand—24"High	□ QSMS2402M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	□ QSWBSS
3/8" x 5/8" x 10' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
3/8" x 5/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
3/8" x 5/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
3/8" x 5/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
3/8" x 5/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
3/8" x 5/8" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100

DIMENSIONS: PCA-A42KA7 & PUY-A42NHA7 (-BS)

PCA-A42KA7

Unit: in (mm)



- ① Drainage pipe connection(1(26mm)I.D.)
 - ② Drainage pipe connection(for the left arrangement)
 - ③ Knockout hole for left drain-piping arrangement
 - ④ Refrigerant-pipe connection (gas pipe side/flared connection)
 - ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
 - ⑥ Knockout hole for upper drain pipe arrangement
 - ⑦ Knockout hole for fresh air intake $\Phi 3-15/16(\Phi 100)$
 - ⑧ Knockout hole for wiring arrangement $\Phi 7/8(\Phi 22)$
- Accessory...Drain socket (1(26mm)I.D.)

